

MUSEUM OF HOLOGRAPHY

BOOKSTORE CATALOG 1982



**holo•gram** *holo + gram / fr. L hol-, holo-, fr. Gk holos = complete, entire; and fr. Gk gramma = drawing, writing, record, message / the whole message: n*

A hologram is the recording of patterns of laser light waves reflected from an object onto the emulsion of light sensitive film and resulting in a three-dimensional image focused in space. Holo-

gram refers to both the film and the dimensional light image it projects. The technique of making a hologram is called holography.

Dear Friend of the Museum,

Our 1982 catalog represents the largest and finest selection of holograms and holographic products ever assembled. Many products are exclusive to the Museum, all are backed by our knowledge and expertise in the field.

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With 1982 marking our fifth anniversary, we want to thank you for your important and necessary support. At a time when grants and donations to Museums are becoming scarce, the Museum of Holography is proud that our success and survival has been directly due to your bookstore purchases, membership fees and visits to the Museum. We appreciate your patronage and thank you for your order.

Janet L. Birchfield  
Director of Mail Order Services  
Museum of Holography

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**Cover artwork:** Hudson Talbott  
**Concept and design:** Janet L. Birchfield  
**Photography:** Daniel E. Quat, assisted by Joyce Sangirardi  
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H O L O G R A P H I C M O V I E S

They are illuminated from behind with ordinary clear light bulbs. The rainbow colored images move from side to side, and appear to be suspended in space. They are available in many formats, and come with easy to follow instructions for display.

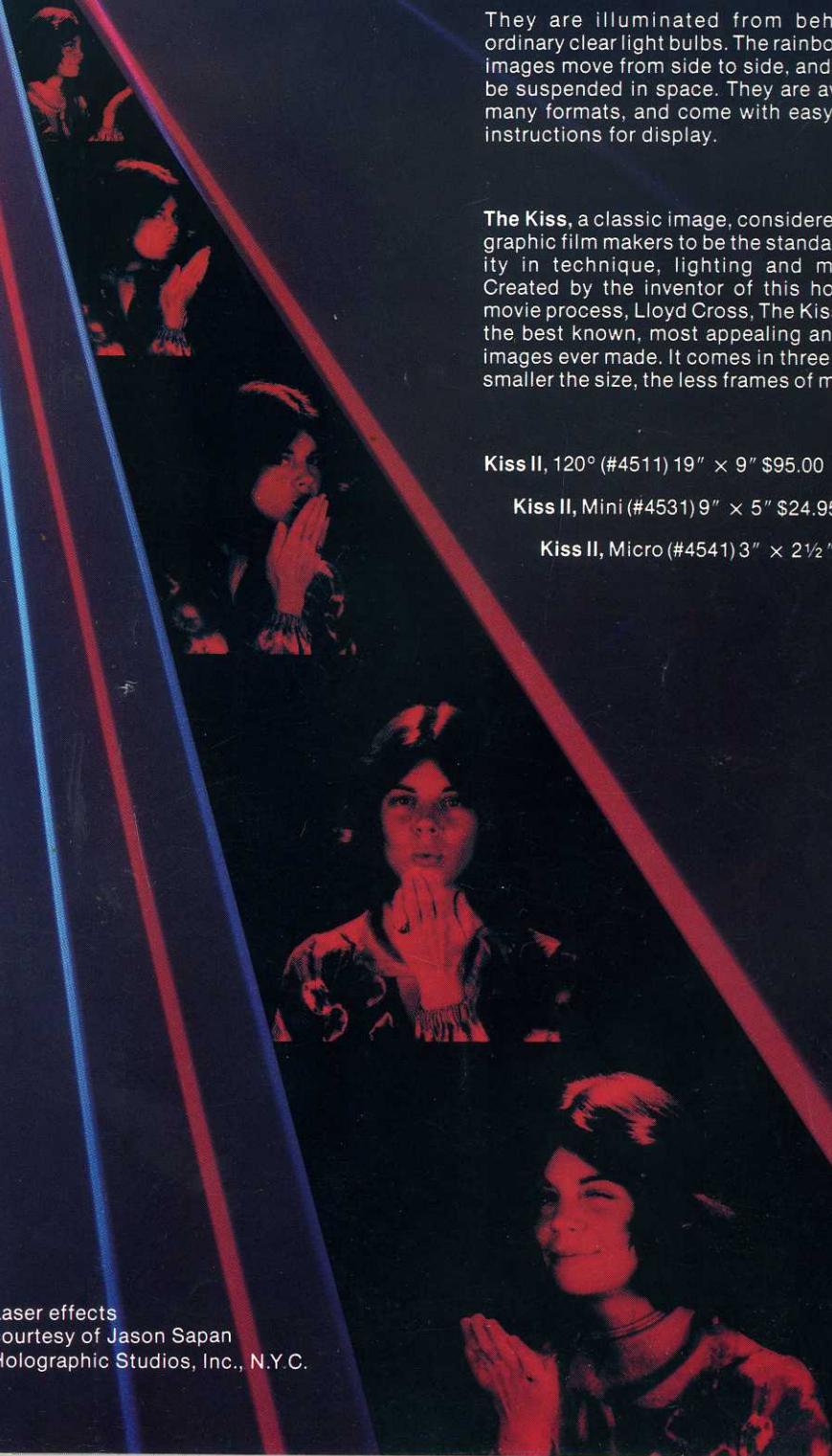
**The Kiss**, a classic image, considered by holographic film makers to be the standard of quality in technique, lighting and movement. Created by the inventor of this holographic movie process, Lloyd Cross, The Kiss is one of the best known, most appealing and popular images ever made. It comes in three sizes; the smaller the size, the less frames of movement.

**Kiss II, 120° (#4511) 19" x 9" \$95.00**

**Kiss II, Mini (#4531) 9" x 5" \$24.95**

**Kiss II, Micro (#4541) 3" x 2½" \$6.50**

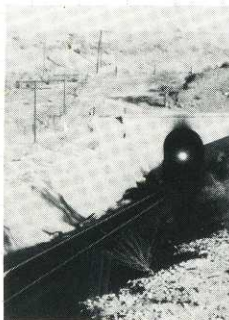
Laser effects  
courtesy of Jason Sapan  
Holographic Studios, Inc., N.Y.C.





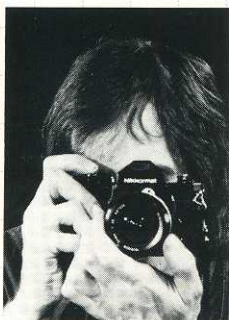
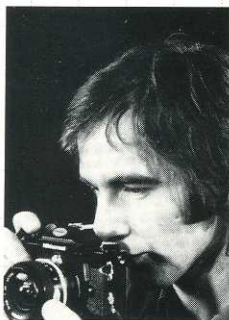
**Dracula (#4516) \$90.00**

**Miss America (#4520) \$112.00**



**Train (#4512) \$90.00**

**Clowns (#4518) \$120.00**



**Simon and Camera (#4517) \$120.00**

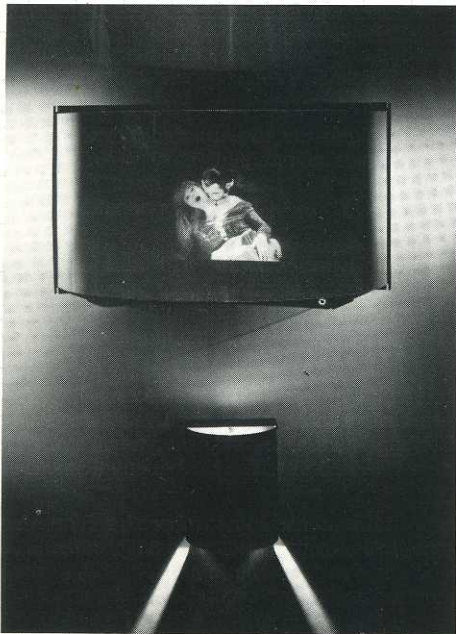
**Created and Consumed (#4515) \$90.00**

## A N D T H E I R D I S P L A Y S

These holographic movies are made to be curved in a 120° arc when displayed. As you walk from left to right around the film, you see 800 successive movie frames representing 15 seconds of real time action. Each hologram is 19" long and 9" high. An ordinary clear light bulb must be positioned at a 45° angle behind the film to reconstruct the image. Choose one of our custom displays, or build your own from the instructions provided with each hologram. We will pre-mount your film for you if film and one of the displays shown here are ordered together.

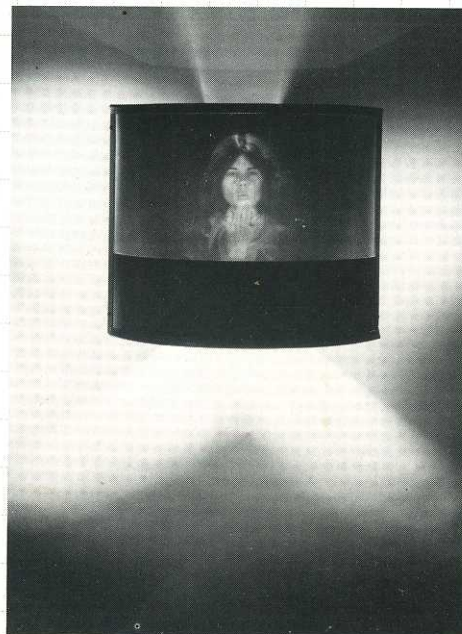
### Finlay Designs 120° Display

This black metal display sandwiches the movie between two sheets of clear plexiglass, for complete protection. Main features are the separate lighting unit which adjusts for perfect illumination, and the wide viewing area. Comes complete with light bulb, ready to hang on the wall and plug in. Price does not include film. (#7451) \$65.00



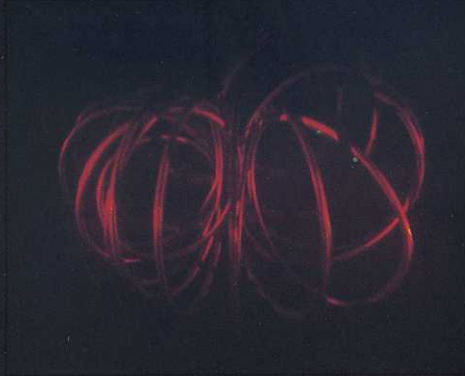
### Multiplex 120° Display

The frame of this black metal display conceals a pre-aligned light which reflects off a mirror to illuminate the hologram. The film is mounted behind a curved acetate sheet, and comes complete with light bulb, ready to plug in. Can be used on a desk top or hung on the wall. Price does not include film. (#7452) \$65.00





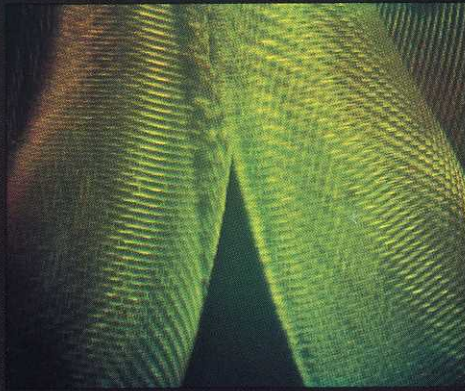
**Saturn (#4221) \$54.00**



**Coils (#4222) \$54.00**



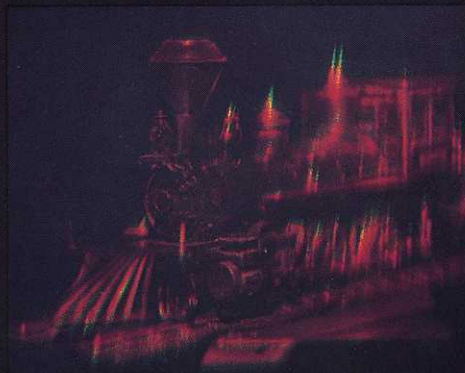
**Rose (#4223) \$54.00**



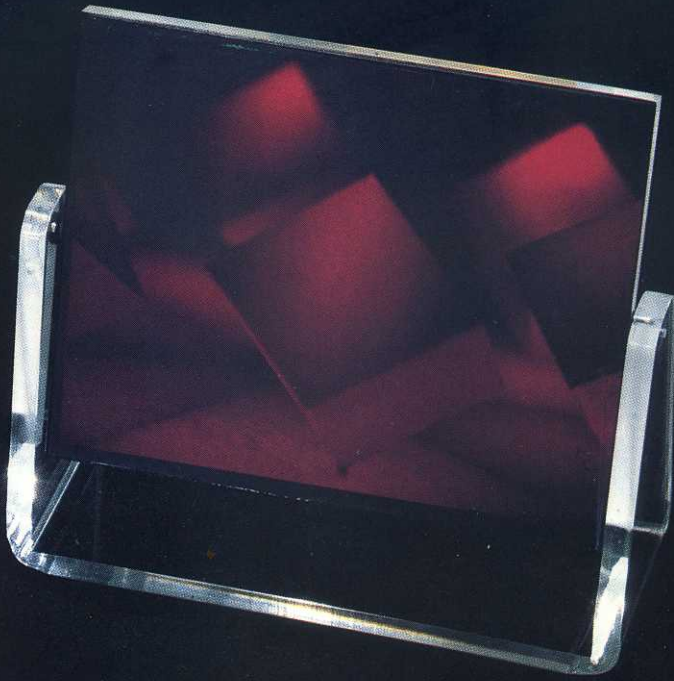
**Mesh (#4227) \$48.00**

Reflection holograms are easy to display because they are illuminated and viewed from the front of the film. The image appears when a clear light bulb, pen light or direct sunlight is positioned above and in front of the plate at a 45° angle. These glass plates are all 4" x 5" and can be framed to hang on a wall, or mounted on one of our plexiglass Tilt™ Displays for table top viewing. Instructions are provided with each purchase.

**Tilt™ Display** pictured on the opposite page, has been designed specifically for our 4" x 5" reflection plates. These clear plexiglass holders have a tilting surface for proper viewing in many positions. Each measures 5½" wide by 5" high by 2" deep. We will permanently mount your reflection hologram on this display when both items are ordered.



**Engine No. 9 (#4395) \$135.00**



**Kaleidoscopic Cubes (#4225)** Price does not include Tilt™ Display \$52.00

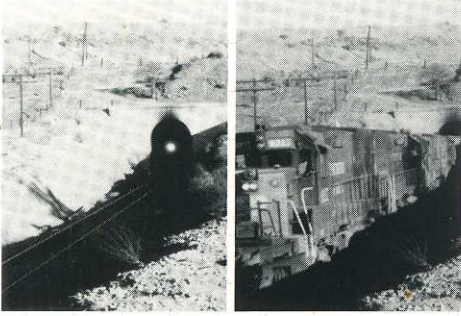
**Tilt™ Display (#7431)** \$15.00



**Light Wires (#4226)** Price does not include Tilt™ Display \$95.00

## FLAT MOVIES

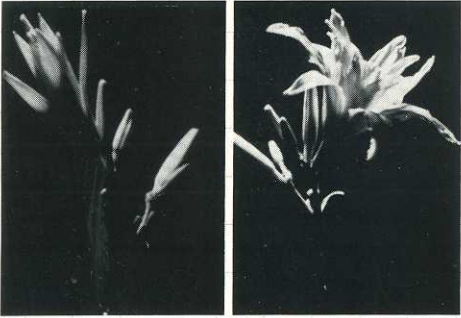
These holographic movies, measuring 9" long by 7" high, are made to be displayed flat rather than curved. Each hologram contains 360 successive holographic movie frames, representing 7 seconds of real time action. Like 120° movies, these must be illuminated by a white light point source positioned at a 45° angle behind and below the film. Instructions are provided for constructing a display.



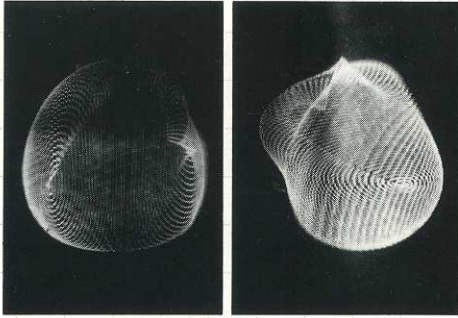
**Mini Train** (#4532) \$24.95



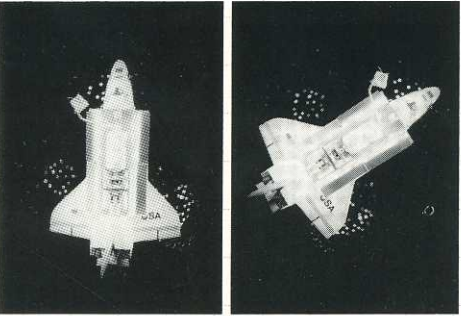
**Marcello Mastroianni** (#4527) \$49.95



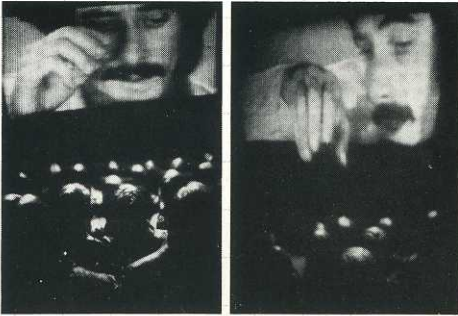
**Fred's Flower** (#4523) \$49.95



**Venus** (#4522) \$49.95



**Shuttle** (#4528) 28.95



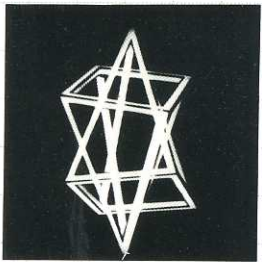
**Movie Theater** (#4521) \$54.00



## M I C R O M O V I E S

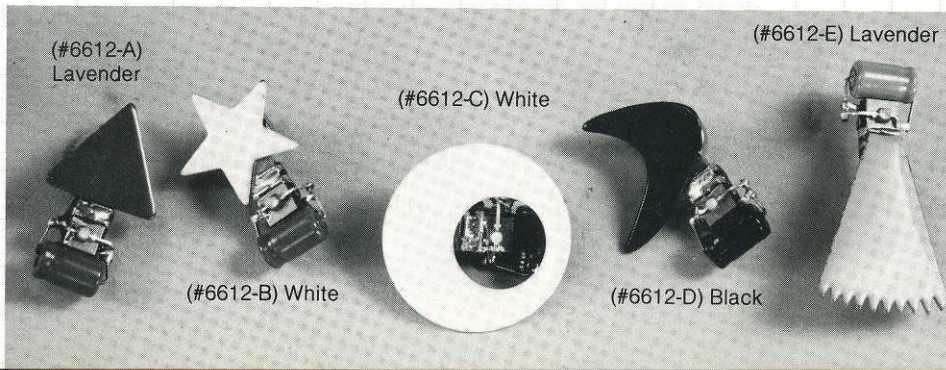
**Train (#4547)**

Micros are the smallest of the holographic movies. They consist of 160 frames, representing 3½ seconds of real time action. To reconstruct the image, a clear bulb, pen light or sunlight should be positioned behind and above the film at a 45° angle. Each comes in a protective cover.

**Dracula**  
(#4551) \$6.50**Geometric  
Pyramids**  
(#4544) \$6.50**Gorilla Kiss**  
(#4546) \$6.50

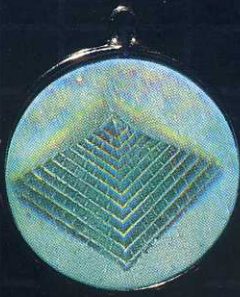
## L. E. D. P I N S

These enamelled copper pins have light emitting diodes that flash from a hidden battery that activates the light. Each has an average life of 300-400 hours from the 1.5 volt calculator battery which is included (#6612) \$17.95





**Filagree Butterfly** M (#4433) \$18.95



**Pyramid** M,L (#4413) \$18.95



**Pagoda** M (#4435) \$18.95



**Rose** M,L (#4403) \$18.95



**Waltham Watch** M,L (#4401) \$18.95



**Eye** M,L (#4408) \$18.95



**Loop** M (#4434) \$18.95



**Dice** M (#4402) \$18.95



**Delicate Rose** M (#4437) \$18.95



**Classic Eye** S,M (#4404) \$18.95



**Resistor** M (#4438) \$18.95



**Pharaoh** M,L (#4410) \$18.95

## H O L O G R A P H I C J E W E L R Y :

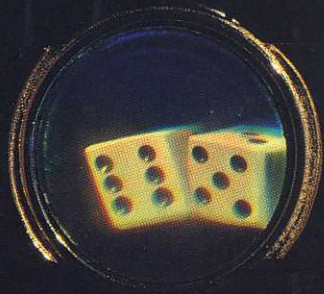
These holograms are the clearest and brightest yet produced. They are visible in virtually any strong light, with sunlight producing the most dramatic effect. The images on the opposite page are priced to include your choice of gold plated chain or key chain. Be sure to specify which you want in your order. Many of the images come in different sizes, which are noted as S (small), M (medium), and L (large) after each title. Please specify the size with your order. The pins and belt buckles shown on this page are made to order. The price shown indicates any medium sized dichromate and its pin or buckle. Please indicate the full description of the dichromate, and which setting you prefer (pin or buckle).

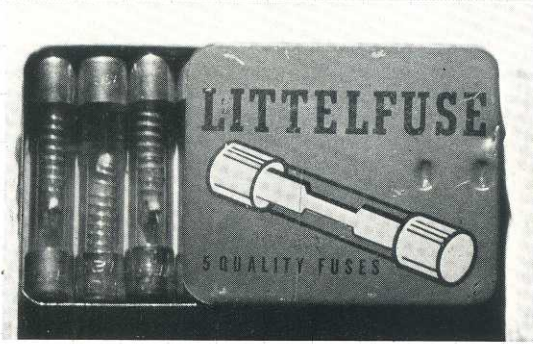


**Pins** \$21.50

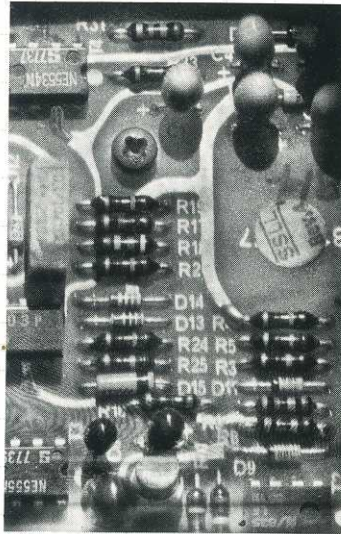
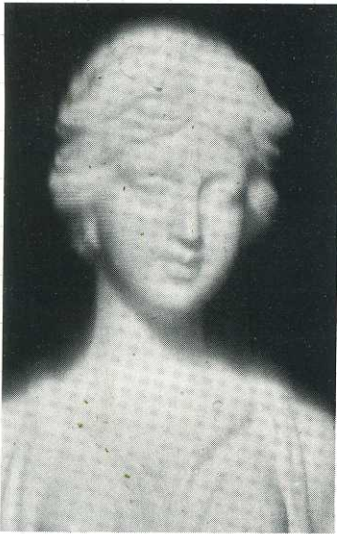


**Belt Buckles** (belt not included) \$26.50



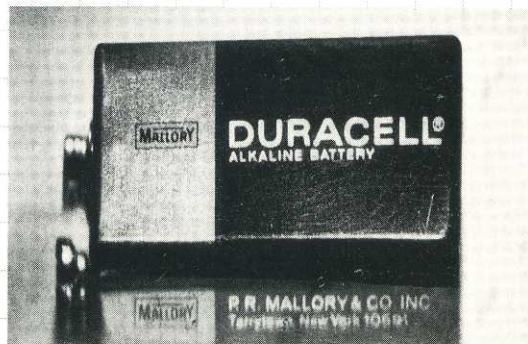


These 2" x 3" holograms clearly demonstrate the clarity and sharpness characteristic of dichromate holography. No special set-up is required to view these, any bright light will do. Each hologram is mounted onto a protective glass cover plate of the same size.



From top to bottom, left to right:

- Littelfuse** (#4445) \$16.95
- Venus** (#4447) \$16.95
- Resistor** (#4446) \$16.95
- Duracell** (#4448) \$16.95

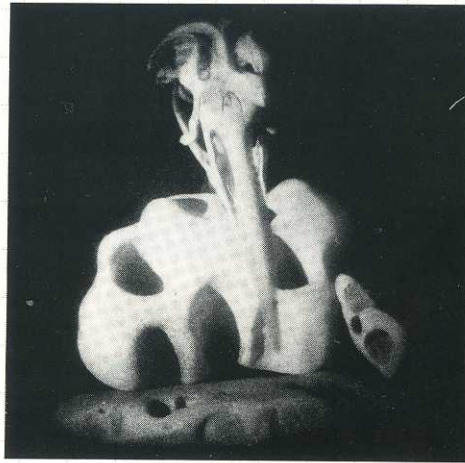


## P R I N T E D   H O L O G R A M S

One of the newest and most exciting forms of holography, printed holograms are stamped (embossed) onto a mylar surface. They look like a mirror until you shine a clear bulb 45° above and in front of them. Then the hologram comes into view in bright rainbow colors.



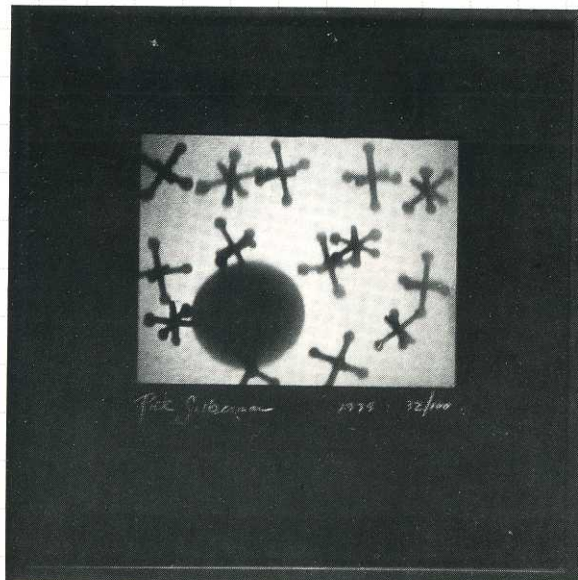
**Stargate** (#4605) \$18.95



**Bird and Rocks** (#4606) \$11.95

## F O R   C O L L E C T O R S

**Ball and Jacks** is a limited edition of 100 signed, numbered and dated reflection hologram plates, commissioned by the Museum from the larger artwork by artist Rick Silberman in the Permanent Collection. Each 4" x 5" plate comes framed and matted, ready to hang. Available exclusively from the Bookstore.



**Ball and Jacks** (#4396) \$135.00

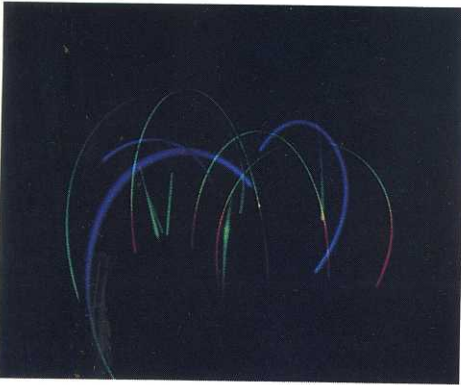
W H I T E L I G H T T R A N S M I S S I O N  
H O L O G R A M S



These holograms offer a great range of colors, and reconstruct images that appear to project in front of, as well as behind the film plane. They are recorded on 4" x 5" film, and come mounted in clear plexiglass, ready to hang. Your clear bulb, placed at a 45° angle above and behind the film will 'transmit' light to form the image. Instructions are included.

Bill Hilliard photo

**Queene Anne's Lace (#4604) \$49.00**



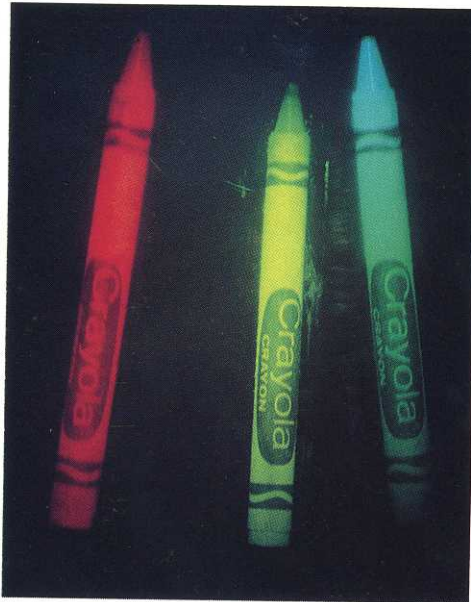
Bill Hilliard photo

**Loose Ends (#4601) \$49.00**



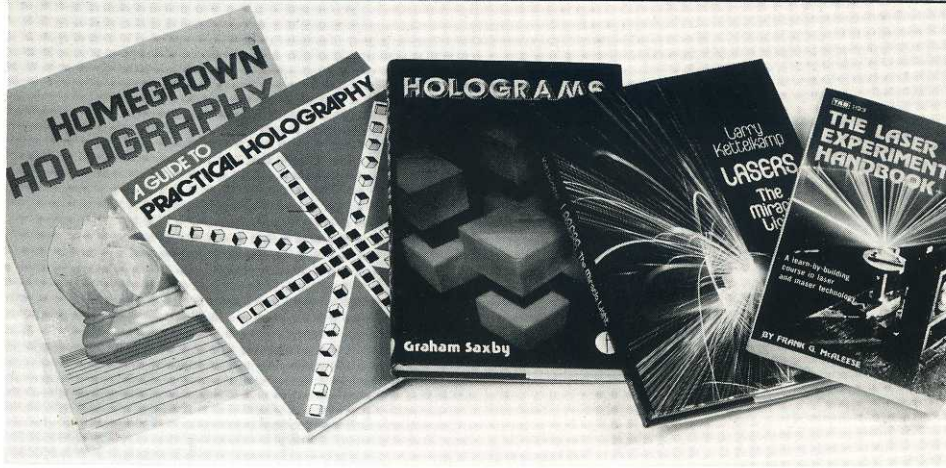
Bill Hilliard photo

**Desert Mirage (#4603) \$49.00**



**Crayons (#4602) \$47.50**

TEXT BOOKS :  
LASERS, LIGHT & HOLOGRAPHY



**A Guide to Practical Holography**, by C. Outwater and E. Van Hammersveld, 1974. Beginners manual for those who would like to make holograms but have no technical training. Covers basic light wave theory and recording procedures. Softbound, 88 pages. (#2251) \$12.50, available Dec. 1.

**Homegrown Holography**, by G. Dowbenko, 1977. Practical information about lab construction and optics. Designed for the beginner, with diagrams and formulas for all types of holograms. Softbound, 160 pages. (#2252) \$8.95

**Making Holograms**, by G. Saxby, 1980. Exceptionally complete practical text, ranging from simple productions to more sophisticated image work. Covers applications in art, industry, and commerce, with a well organized glossary of terms. Color plates of noted art work included. Hardcover, 168 pages. (#2259) \$24.95

**Holography and Its Application**, by Y.I. Ostrovsky, 1973. Intermediate student text, translated from the Russian. Emphasis on geometry for formation and reconstruction of holograms. Discussion is centered on more sophisticated techniques for achieving optimum beam ratios, determining emulsion resolution and making multi-color images. Hardcover, 272 pages. (#2254) \$5.95

**A Study Guide on Holography**, by Dr. T. H. Jeong, 1975. A self-study manual aimed at practical laboratory experience. Detailed techniques for recording and characteristics of all necessary materials. Intermediate text. Softbound, 109 pages. (#2253) \$11.25

**Understanding Holography**, by M. Wenyon, 1978. A concise reference manual of principles and applications of laser technology. Focuses on holography as a tool in industry, advertising and art. Good bibliography is provided for further study. Hardcover, 180 pages. (#2261) \$13.95

**The Laser Experimenter's Handbook**, by F. G. McAleese, 1979. Six detailed projects for building and acquiring working knowledge of lasers. Step by step instructions with all in-depth background theory necessary for experimentation. Softbound, 210 pages. (#2274) \$7.95

**Facets of Light: Color, Images and Things That Glow in the Dark**, By K. C. Cole, 1980. Discussions on well known phenomena in the field of light and color, from the San Francisco Exploratorium. Softbound, 169 pages. (#2276) \$10.95

**Light and Its Uses**, Intro. by J. Walker, 1980. Collection of articles dealing with the optics and construction of lasers, holograms, interferometers, and several types of instruments designed to disperse light into its constituent wavelengths. Softbound, 147 pages. (#2275) \$12.95

**Lasers: The Miracle of Light**, by L. Kettlekamp, 1979. Comprehensive guide for the lay person, focusing on major facets of laser advancement. Documented with simple diagrams and photographs. Suited for both student and artist. Hardcover, 126 pages. (#2273) \$7.75

**Three Dimensional Imaging Techniques**, by T. Okoshi, Academic Press, 1976. The history and development of the reconstruction of spatial images and dimensional imaging systems. Stereo, lenticulars, fly's eye arrays, direction-selective screens, stereo-video viewers and holography are included. Hardcover, 403 pages. (#2272) \$39.95

**Holography: A Survey**, by D. D. Dudley, 1973. Issued by NASA as part of its Technology Utilization Program. Surveys present and future applications of holography in government and industry. Topics include interferometry, microscopy, data processing and storage, cinema and television. Softbound, 129 pages. (#2268) \$4.95

**Optical Holography**, by R. Collier, C. Bückhardt and L. Lin, Academic Press, 1977. Advanced text offers in-depth treatment of the theory and applications of holography. Key reference for engineers, physicists and chemists. Softbound, 624 pages. (#2255) \$32.50

**Handbook of Optical Holography**, edited by H. J. Caulfield, Academic Press, 1979. Advanced reference tool which answers questions regarding practical techniques and applications of holograms. Contributions by 31 noted holographers and physicists. Hardcover, 638 pages (#2258) \$72.50

**holosphere**, edited by E. A. Bush, Museum of Holography periodical. The advocate of holographic science, technology and art, *holosphere* is the only publication devoted exclusively to display holography. Eleven times a year it brings members of the Museum accurate, reliable reporting about events, criticism, and advances in the practice of holography. To subscribe, simply join the Museum by checking the box on the order form on page 17.

All of our diffraction gratings break up light into the spectrum to produce dozens of rainbow patterns.

Counter clockwise from top left

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- B. **Rainbow Disk 6" diam.** (#6604) \$4.50
- C. **Rainbow Disk 3" diam.** (#6605) \$2.00
- D. **Memo Book** Specify silver or black (#6613) \$4.50
- E. **Address Book** Specify silver or black (#6614) \$4.50
- F. **D.A.D. spinning disc** (#36607) \$4.95



Museum of Holography T-shirts and Sweat Shirts in a 4-color design by Hudson Talbott, 50% cotton, 50% polyester.

**T-Shirt** Specify S,M,L, or XL (#6606) \$6.50  
**Sweat Shirt** Specify S,M,L, (#6614) \$12.00







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*7/2/81*